

Product datasheet for **RR203004**

Cacna1i (NM_020084) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cacna1i (NM_020084) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cacna1i
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR203004 representing NM_020084
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCTGACAGCAACTTACCGCCCTCATCTGCAGCAGCCCCGGCCCTGAGCCGGGAATCACTGAGCAGC
 CGGGCCCCGGAGTCCCCCTCCATCCCCCTCCAGGCTGGAGAGCCATTGGAAGGAACCAACCTGACGT
 CCCACATCCAGACCTGGCTCCTGTTGCTTTCTTCTGCCTGCGCCAGACCAGGCCACGGAAGTGGTGC
 ATCAAGATGGTTTTGTAACCCGTGGTTCGAGTGTGTGAGCATGCTGGTTATTCTGCTGAACGTGTGACCC
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 TGACTTTCATCTTTCATCTTTGCCATGGAGATGGTGTCTAAGATGGTGGCCCTGGGCATTTTTGGCAAG
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GGGGTCTCCTCGGACCTGGGGAAGGAGGAGGAACAGGAGGACGGGGCAGCCCGACTGTGTGGGGATGTGT
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Protein Sequence: >RR203004 representing NM_020084
 Red=Cloning site Green=Tags(s)

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 IPPLKEQGRECCLSKDDVYDFGAGRQDLNASGLCVNWNRYYNVCRTGNANPHKGAINFDNIGYAWIVIFQ
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 SLFVLAASKDGWVNIYNGLDVAVDQPVNTNHPWMLLYFISFLLIVSFFVLMNMFVGVVVENFHKCRQH
 EAEARRREEKRLRLEKRRKAQRLPYATYCPTRLLIHSMTSHYLDIFITFIICLNVTMSLEHYNQ
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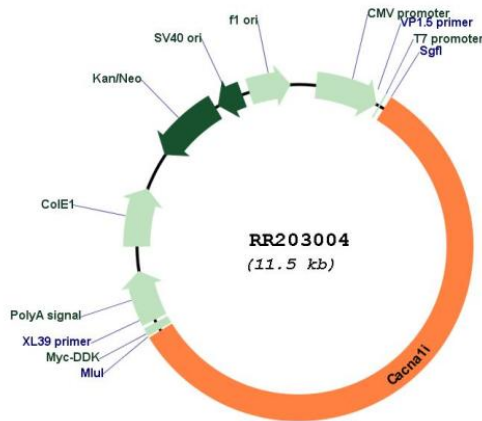
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_020084

ORF Size:

6603 bp

OTI Disclaimer:

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:

This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_020084.3](#), [NP_064469.3](#)

RefSeq Size: 6709 bp

RefSeq ORF: 6606 bp

Locus ID: 56827

UniProt ID: [Q9Z0Y8](#)

Cytogenetics: 7q34

MW: 243.7 kDa

Gene Summary: low voltage-activated calcium channel subunit; important for calcium ion transport into nerve, muscle and endocrine cells [RGD, Feb 2006]